

PASSIVE ELEMENT FOR FUEL PROCESSOR  
START UP TRANSIENT TEMPERATURE CONTROL

ABSTRACT OF THE DISCLOSURE

A fuel processor for a fuel cell includes a thermal start device, a mixing region and a temperature control element. The temperature control element is located between the thermal start device and the mixing region. The temperature control element reduces temperature increase in the mixing region during thermal startup. A flame arrestor is connected to the mixing region. A primary reactor is connected to the flame arrestor. The transient temperature control element has a body defining an inlet and an outlet. A plurality of bores are formed in the body.